

Supplemental Table 2. A list of rose genes, whose expression is upregulated during 'Fragrant Cloud' (FC) petal maturation and is higher in mature (stage 4) FC petals than in mature 'Golden Gate' (GG) petals, as revealed by microarray analyses of 350 selected FC ESTs.

Clone no.	Accession no.	First hit (description)
fc0008	BQ105976	desiccation-related protein, putative [Arabidopsis thaliana] gi 12323093 gb AAG51530.1 AC051631_10 (AC051631)
fc0026	BQ104692	putative protein [Arabidopsis thaliana] gi 9758745 dbj BAB09183.1 (AB018113)
fc0046	BQ104974	(AJ271793) putative sesquiterpene cyclase [Artemisia annua]
fc0051	BQ104020	(L13655) membrane protein [Saccharum hybrid cultivar H65-7052]
fc0103	BQ106573	MYO-INOSITOL-1-PHOSPHATE SYNTHASE (MI-1-P SYNTHASE) (IPS) gi 9858816 gb AAG01148.1 (AF284065) myo-inositol 1-phosphate synthase [Sesamum indicum]
fc0284	BQ104391	DCE_LYCES GLUTAMATE DECARBOXYLASE (GAD) (ERT D1) gi 1362098 pir S56177 probable glutamate decarboxylase - tomato gi 995555 emb CAA56812.1 (X80840)
fc0293	BQ106609	AF336286_1 (AF336286) GHMYB9 [Gossypium hirsutum]
fc0403	BQ105830	ARF_VIGUN ADP-RIBOSYLATION FACTOR gi 2689631 gb AAB91395.1 (AF022389) ADP-ribosylation factor [Vigna unguiculata]
fc0445	BQ105103	(AY039230) 3-hydroxy-3-methylglutaryl coenzyme A) reductase [Malus x domestica]
fc0524	BQ105675	(AY042880) similar to dihydroflavonol reductase) [Arabidopsis thaliana]
fc0530	BQ105545	(AF339024) pectate lyase B [Fragaria x ananassa]
fc0568	BQ106505	Myb26 protein - garden pea gi 1841475 emb CAA71992.1 (Y11105) Myb26 [Pisum sativum]
fc0592	BQ105086	DCS4_GOSAR (+)-DELTA-CADINENE SYNTHASE ISOZYME C2 (D-CADINENE SYNTHASE) gi 2879841 emb CAA76223.1 (Y16432) (+)-delta-cadinene synthase [Gossypium arboreum]
fc0620	BQ104195	(L46792) xyloglucan endotransglycosylase precursor) [Actinidia deliciosa]
fc0684	BQ105312	putative protein kinase [Arabidopsis thaliana] gi 2980770 emb CAA18197.1 (AL022198) putative protein kinase [Arabidopsis thaliana]
fc0733	BQ105492	gene C-7 protein - common tobacco gi 19817 emb CAA45741.1 (X64399) C-7 [Nicotiana tabacum]
fc0795	BQ105030	AF331659_1 (AF331659) starch phosphorylase [Ipomoea batatas]
fc0861	BQ105983	(AF039183) GAST-like gene product [Fragaria x ananassa]
fc0883	BQ104983	(AC022287) unknown protein [Arabidopsis thaliana]
fc0886	BQ104463	KRP5=kinesin-related protein [rats, testes, Peptide Partial,

		167 aa]
fc0898	BQ106155	AF206627_1 (AF206627) globulin-like protein [Cucumis melo]
fc0902	BQ104756	AC025808_4 (AC025808) F18O14.7 [Arabidopsis thaliana]
fc0903	BQ105531	AC069273_14 (AC069273) unknown protein [Arabidopsis thaliana]
fc0937	BQ106209	METM_ACTCH S-ADENOSYLMETHIONINE SYNTHETASE 3 (METHIONINE ADENOSYLTRANSFERASE 3) (ADOMET SYNTHETASE 3) gi 726032 gb AAA81379.1 (U17241) S-adenosylmethionine synthetase [Actinidia chinensis]
fc0949	BQ105075	(AJ404639) hypothetical protein [Cicer arietinum]
fc1001	BQ106545	AC006951_21 (AC006951) hypothetical protein [Arabidopsis thaliana]
fc1021	BQ103946	(U63631) LMW heat shock protein [Fragaria x ananassa]
fc1025	BQ104231	(AC005824) unknown protein [Arabidopsis thaliana]
fc1035	BQ104371	AF141900_1 (AF141900) putative aquaporin PIP2-2 [Vitis berlandieri x Vitis rupestris]
fc1153	BQ104747	(S80863) delta 9 acyl-lipid desaturase/delta 9 acyl-CoA) desaturase homolog [Rosa hybrid cultivar]
fc1156	BQ104221	INVA_PHAAU ACID BETA-FRUCTOFURANOSIDASE PRECURSOR (ACID SUCROSE-6-PHOSPHATE HYDROLASE) (ACID INVERTASE) (AI) (VACUOLAR INVERTASE) gi 218326 dbj BAA01107.1 (D10265) invertase [Vigna radiata] gi 384325 prf 1905412A acid invertase [Vigna radiata]
fc1158	BQ105798	INVA_PHAAU ACID BETA-FRUCTOFURANOSIDASE PRECURSOR (ACID SUCROSE-6-PHOSPHATE HYDROLASE) (ACID INVERTASE) (AI) (VACUOLAR INVERTASE) gi 218326 dbj BAA01107.1 (D10265) invertase [Vigna radiata] gi 384325 prf 1905412A acid invertase [Vigna radiata]
fc1164	BQ105650	unknown protein [Arabidopsis thaliana] gi 2583134 gb AAB82643.1 (AC002387) putative proline-rich protein [Arabidopsis thaliana]
fc1173	BQ105028	putative cytochrome P450 [Arabidopsis thaliana] gi 12324945 gb AAG52424.1 AC011622_12 (AC011622) putative cytochrome P450; 34849-36420 [Arabidopsis thaliana]
fc1199	BQ104264	AF367445_1 (AF367445) V-ATPase catalytic subunit A [Prunus persica]
fc1274	BQ104594	dTDP-glucose 4,6-dehydratase, putative [Arabidopsis thaliana] gi 11994590 dbj BAB02645.1 (AP002061) gene_id:T21E2.5~similar to dTDP-D-glucose 4,6-dehydratase [Arabidopsis thaliana]
fc1282	BQ106016	putative protein kinase [Arabidopsis thaliana] gi 7488270 pir T00410 protein kinase homolog T13E15.16 - Arabidopsis thaliana gi 2344901 gb AAC31841.1 (AC002388) putative protein kinase [Arabidopsis thaliana]
fc1386	BQ105113	(AF025435) tyrosine/dopa decarboxylase [Papaver somniferum]
fc1391	BQ104165	(AB020745) gene_id:MJE7.13~pir S72530~similar to unknown protein [Arabidopsis thaliana]
fc1447	BQ104118	unspecific monooxygenase (EC 1.14.14.1) - common tobacco gi 1545805 dbj BAA10929.1 (D64052) cytochrome P450 like_TBP [Nicotiana tabacum]

